

Specifications — RGB 190F, RGB 192, RGB 198, RGB 198 EU

Video

Gain.....	Unity (0.7 V), (0.8 V) 15% with 3 dB peaking
Max. rise/fall time	1.5 ns
Bandwidth.....	300 MHz (-3 dB)

Video input and loop through

Number/signal type.....	1 analog VGA–QXGA, Mac, Sun RGBHV, RGBS, RGsB 1 buffered local monitor loop-through identical to the input
Connectors	(1) female 15-pin HD (input) (1) female 15-pin HD (loop-through)
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	Analog: 0.3 V to 1.45 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 130 kHz
Vertical frequency.....	30 Hz to 170 Hz
Return loss.....	<-41 dB @ 5 MHz
DC offset (max. allowable).....	4 V

Video output

Number/signal type.....	1 RGBHV, RGBS, RGsB
Connectors	6 BNC female
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.7 V to 0.8 Vp-p (switch selectable) with peaking
Impedance.....	75 ohms
Return loss.....	-45 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset

Sync

Input type.....	RGBHV, RGBS, RGsB (does not strip sync from video)
Output type.....	RGBHV at all times, RGBS at all times, RGsB (switch selectable)
Input level	2.0 V to 5.5 Vp-p with ±0.2 VDC offset (max.)
Output level	4.0 V to 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	57 ns
Max. rise/fall time	4 ns
Polarity.....	RGBHV input: positive or negative (follows input) RGBS, RGsB input: negative

Audio— all models except RGB 190F

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N.....	>90 dB at maximum output (14 dBm), balanced, unweighted
Crosstalk.....	<-90 dB @ 1 kHz
Stereo channel separation	>90 dB @ 1 kHz to 20 kHz

Specifications — RGB 190F, RGB 192, RGB 198, RGB 198 EU, cont'd

Audio input— all models except RGB 190F

Number/signal type.....	1 stereo or mono, unbalanced
Connectors	(1) 3.5 mm mini stereo audio jack (tip, ring, sleeve)
Impedance.....	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms, -7.78 dBu)
Maximum level.....	+9.5 dBu, (unbalanced) at 1% THD+N

NOTE 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output— all models except RGB 190F

Number/signal type.....	1 buffered stereo or mono, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (Hi-Z)	>+14 dBm, balanced at 1% THD+N
Maximum level (600 ohm).....	>+9 dBm, balanced at 1% THD+N

General

Power	
RGB 198, RGB 198EU.....	100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal
External power supply	
RGB 190F, RGB 192	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated, included
Power input requirements	
RGB 190F, RGB 192	12 VDC, 0.35 A
Cooling	Convection, no vents
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Mounting	
Rack mount	
RGB 198, RGB 198EU	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129)
RGB 190F, RGB 192 ...	No
Furniture mount	
RGB 198, RGB 198EU	Yes, with MBU 125 Under-desk Mount Kit, part #70-077-01 (included), or MBD 129 Through-desk Mount Kit, part #70-077-02 (optional)
RGB 190F, RGB 192 ...	Yes, with included MBU 125 Under-desk Mount Kit, part #70-077-01
Enclosure type	Metal
Enclosure dimensions	
RGB 198, RGB 198EU.....	1.75" H x 13.0" W x 4.5" D (1U high, three quarters rack wide) (4.4 cm H x 32.7 cm W x 11.4 cm D) (Depth excludes connectors.)
RGB 190F, RGB 192	1.0" H x 5.7" W x 4.5" D (2.5 cm H x 14.5 cm W x 11.4 cm D) (Depth excludes connectors.)
Product weight	
RGB 198, RGB 198EU.....	2.0 lbs (0.9 kg)
RGB 190F, RGB 192	0.9 lbs (0.4 kg)
Shipping weight	
RGB 198, RGB 198EU.....	4 lbs (2 kg)
RGB 190F, RGB 192	3 lbs (2 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety.....	CE, CUL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty.....	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE Specifications are subject to change without notice.

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